## THE WILSON BULLETIN

Editor CHARLES R. BLEM

Department of Biology

Virginia Commonwealth University

816 Park Avenue

Richmond, Virginia 23284-2012

Assistant Editors LEANN BLEM

ALBERT E. CONWAY ANNE S. WENNER

Editorial Assistant ROBERT BLEM

Editorial Board KATHY G. BEAL

RICHARD N. CONNER

CHRISTOPHER H. STINSON

JEFFREY R. WALTERS

Review Editor GEORGE A. HALL

Department of Chemistry

P.O. Box 6045

West Virginia University Morgantown, WV 26506

Index Editor KATHY G. BEAL 616 Xenia Avenue

Yellow Springs, OH 45387

#### SUGGESTIONS TO AUTHORS

See Wilson Bulletin, 103:163-164, 1991 for more detailed "Information for Authors."

Manuscripts intended for publication in *The Wilson Bulletin* should be submitted in triplicate, neatly typewritten, double-spaced, with at least 3 cm margins, and on one side only of good quality white paper. Do not submit xerographic copies that are made on slick, heavy paper. Tables should be typed on separate sheets, and should be narrow and deep rather than wide and shallow. Follow the AOU Check-list (Sixth Edition, 1983) insofar as scientific names of U.S., Canadian, Mexican, Central American, and West Indian birds are concerned. Abstracts of major papers should be brief but quotable. In both Major Papers and Short Communications, where fewer than 5 papers are cited, the citations may be included in the text. Follow carefully the style used in this issue in listing the literature cited; otherwise, follow the "CBE Style Manual" (AIBS, 1983). Photographs for illustrations should have good contrast and be on glossy paper. Submit prints unmounted and attach to each a brief but adequate legend. Do not write heavily on the backs of photographs. Diagrams and line drawings should be in black ink and their lettering large enough to permit reduction. Original figures or photographs submitted must be smaller than 22 × 28 cm. Alterations in copy after the type has been set must be charged to the author.

### NOTICE OF CHANGE OF ADDRESS

If your address changes, notify the Society immediately. Send your complete new address to Ornithological Societies of North America, P.O. Box 1897, Lawrence, KS 66044-8897.

The permanent mailing address of the Wilson Ornithological Society is: c/o The Museum of Zoology, The University of Michigan, Ann Arbor, Michigan 48109. Persons having business with any of the officers may address them at their various addresses given on the back of the front cover, and all matters pertaining to the Bulletin should be sent directly to the Editor.

#### MEMBERSHIP INQUIRIES

Membership inquiries should be sent to Dr. John Smallwood, Dept. of Wildlife and Range Sciences, Univ. Florida, Gainesville, Florida 32611.

# CONTENTS

MAJOR PAPERS	
ROBERT M. MENGEL (1921–1990): THE BLENDING OF SCIENCE AND ART Robert McCracken Peck	339
DISTRIBUTION AND BREEDING BIOLOGY OF THE RED-FRONTED MACAW Dirk V. Lanning	357
DISTRIBUTION AND NEST SITES OF THE MONK PARAKEET IN BOLIVIA	366
TEMPORAL PATTERNS OF SINGING ACTIVITY AT LEKS OF THE WHITE-BELLIED EMERALD  Jonathan L. Atwood, Vanessa L. Fitz, and Jennifer E. Bamesberger	373
ROOSTING AND DIURNAL MOVEMENTS OF RADIO-TAGGED AMERICAN CROWS  Philip C. Stouffer and Donald F. Caccamise	387
POPULATION DYNAMICS OF BLUE JAYS AT A BIRD FEEDER  Margaret B. Hickey and Margaret Clark Brittingham	401
EFFECTS OF PREDATOR PRESENCE ON THE NESTING DISTRIBUTION OF WHITE-CROWNED PIGEONS IN FLORIDA BAY	415
THE BODY RUFFLING DISPLAY OF THE BLACK-CAPPED CHICKADEE  Victoria D. Piaskowski, Charles M. Weise, and Millicent Sigler Ficken	426
PTILOCHRONOLOGY: INDUCED FEATHER GROWTH IN NORTHERN CARDINALS VARIES WITH AGE, SEX, AMBIENT TEMPERATURE, AND DAY LENGTH  Thomas C. Grubb, Jr., Thomas A. Waite, and Arthur J. Wiseman	435
FOREST HABITAT LOSS, FRAGMENTATION, AND RED-COCKADED WOODPECKER POPULATIONS  Richard N. Conner and D. Craig Rudolph	446
CAVITY TREE SELECTION BY RED-COCKADED WOODPECKERS IN RELATION TO TREE AGE  D. Craig Rudolph and Richard N. Conner	458
THE RELATIONSHIP BETWEEN BREEDING BIRD DENSITY AND VEGETATION VOLUME  G. Scott Mills, John B. Dunning, Jr., and John M. Bates	468
SHORT COMMUNICATIONS	
OBSERVATIONS OF WITHIN-COLONY BREEDING SYNCHRONY IN JACKASS PENGUINS  Philip J. Seddon, Yolanda Van Heezik, and John Cooper	480
CHARACTERISTICS OF YELLOW-CROWNED NIGHT-HERON NESTS IN LOWLAND HARDWOOD FORESTS OF MISSOURI Murray K. Laubhan and Frederic A. Reid	486
MIGRATION OF SHARP-SHINNED HAWKS IN THE DRY TORTUGAS, FLORIDA Brad A. Andres	491
BIRD SPECIES ON ST. ANDREW AND OLD PROVIDENCE ISLANDS, WEST CARIBBEAN  Alan Tye and Hilary Tye	493
BODY MEASUREMENTS OF BOREAL OWLS IN IDAHO AND A DISCRIMINANT MODEL TO DETER- MINE SEX OF LIVE SPECIMENS Gregory D. Hayward and Patricia H. Hayward	497
EFFECTS OF RED-CRESTED POCHARD NEST PARASITISM ON MALLARDS	501
BROWN-HEADED COWBIRDS PARASITIZE LOGGERHEAD SHRIKES: FIRST RECORDS FOR FAMILY LANIIDAE	504
NESTS AND EGGS OF SOME COSTA RICAN BIRDS Manuel Marin A. and N. John Schmitt	506
A CASE OF POLYGYNY IN THE WOOD THRUSH R. Kent Johnson, Roland R. Roth, Sara E. Kleiner, and Charles R. Bartlett	509
DOUBLE-TOOTHED KITES FOLLOWING TAMARINSSilvia G. Egler	510
UNPRECEDENTED STOPOVER SITE FIDELITY IN A TENNESSEE WARBLER  Kevin Winker, Dwain W. Warner, and A. R. Weisbrod	
THE RESPONSE OF ADULT RED-COCKADED WOODPECKERS TO A FALLEN NESTLING Richard R. Schaefer, D. Craig Rudolph, and Richard N. Conner	514
LEARNED SONG VARIATIONS IN BRITISH STORM-PETRELS? P. J. B. Slater	515
TRISTRAM'S GRACKLES GROOM NUBIAN IBEX Reuven Yosef and Dalit Yosef	518
TWO NEW HOST SPECIES FOR THE PARASITIC BLOW FLY PROTOCALLIPHORA BRAUERI Frank P. Howe	520
COLUMN COLOR	522